



## MS-02 Sensor

### Technical Specifications

Robust handheld solar irradiance meter

Measures irradiance, ambient and module temperature

Built-in compass and inclinometer

Dual channel temperature measurement

Datalogger 5000 points

The MS-02 is a practical handheld readout device for irradiance measurements, with a built-in inclinometer to measure roof pitch, a compass to measure roof orientation and thermometer to measure ambient and module temperature.

The MS-02 handheld solar irradiance meter is the perfect instrument for solar photovoltaic (Solar PV) and solar thermal installers to conduct comprehensive solar pv site surveys. The MS-02 also includes a data logging facility with USB interface to enable the measured data to be downloaded to a PC. This allows for irradiance and temperature to be recorded at user-defined intervals over a number of hours or days, the collected data can then be downloaded for analysis or for inclusion in solar installation reports.

The MS-02 is a high specification user-friendly irradiance meter that allows for quick and easy irradiance measurements, displaying the information in either W/m<sup>2</sup> or BTU/hr-ft<sup>2</sup>. The ideal solution for both

solar photovoltaic (Solar PV) and solar thermal applications.

The use of a photovoltaic reference cell provides a more representative measurement of solar energy and greater accuracy and repeatability compared to irradiance meters which use simple photodiode detectors. The MS-01 and MS-02 irradiance meters both incorporate a display hold feature, which enables the user to easily capture readings in difficult locations.

	<b>MS-02</b>
<b>Irradiance Display Range</b>	0 - 1500 W/m2
<b>Irradiance measurement range</b>	100 - 1250 W/m2
<b>Irradiance Resolution</b>	1 W/m2
<b>Temperature display range</b>	-30 - 125 °C
<b>Temperature measurement range</b>	-30 - 125 °C
<b>Temperature resolution</b>	1 °C
<b>Compass bearing display range</b>	0 - 360 °
<b>Compass bearing measurement range</b>	0 - 360 °
<b>Compass bearing resolution</b>	1 °
<b>Inclinometer display range</b>	0 - 90 °
<b>Inclinometer measurement range</b>	0 - 90 °
<b>Inclinometer resolution</b>	1 °
<b>Power supply</b>	2 x AA batteries
<b>Battery life</b>	> 20.000 readings
<b>Data points</b>	5000
<b>Sample interval</b>	1 - 60 min
<b>Communication</b>	USB download to PC Wireless Solarlink to MP-01

Specifications are subject to change without further notice.